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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,175	12/13/2002	Leonard E. Bensch	440566/PALL	8864
23548	7590	03/15/2005	EXAMINER	
LEYDIG VOIT & MAYER, LTD 700 THIRTEENTH ST. NW SUITE 300 WASHINGTON, DC 20005-3960			PHAM, HOA Q	
			ART UNIT	PAPER NUMBER
			2877	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/088,175	BENSCH ET AL.	
Examiner	Art Unit		
Hoa Q. Pham	2877		

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 13 December 2002.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-45 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-45 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on 13 December 2002 is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ .
5) Notice of Informal Patent Application (PTO-152)
6) Other: ____ .

DETAILED ACTION

Drawings

1. The drawings are objected to because **applicant uses handwriting in figures 1-4 and the quality of lines is poor**. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

1. The "abstract" which appears on the page of the PCT Gazette of published international number WO 01/020323 will be used as the abstract for this application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 2, 6, 7, 10, 12-16, 18-19, 27, and 33 are rejected under 35 U.S.C. 102(b) as being anticipated by Klein (WO 96/31764) (of record).

Regarding claims 1, 10, 27 and 33, Klein discloses a method and apparatus for quantitative particle determination in fluid comprising a water sensor coupled to a non-aqueous liquid (i.e., milk, oil, lubricants, etc..) to sense an indication of the water content of the non-aqueous liquid (page 27, lines 4-15 and page 30, lines 11-24); and an optical particle counter coupled to the none-aqueous liquid to provide an indication of the number of particulates present in the non-aqueous liquid (page 1, lines 4-6, page 3, lines 2-16).

Regarding claim 2, see figure 1c of Klein.

Regarding claims 6, 7, 13, 15, 16, and 19; Klein teaches discloses the use of a "sensor for determining whether a detector response exceeds a level exceeding a predetermined value which is equivalent to some limit, for example, the device could be set to indicate when the water content in a lubricant exceed 0.5%" (see page 30, lines 18-24).

Regarding claims 12, 14, 18, and 19; figure 1c of Klein teaches that the processing means (6) is coupled to the particle counter (10).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3-5, 21-26, 28-30, 37-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Klein in view of Lepper, Jr. (3,787,122).

Regarding claims 3-5, 26, 28-30, and 37-43, Klein does not explicitly teach the water sensor and the optical particle counter are arranged at different locations, for example, water sensor is disposed downstream or upstream of the optical particle counter or both water sensor and particle counter are disposed in parallel in the non-aqueous liquid. Lepper, Jr., from the same field of endeavor, teaches that the particle counter (12) is disposed upstream of a flow meter (44) (see figure 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made to alternatively rearrange the particle counter and water sensor in different ways in the non-aqueous liquid because they would function in the same manner. In addition, it has been held that rearranging parts of an invention involves only routine skill in the art. In re Japikse, 86 USPQ 70.

Regarding claims 21-25, Lepper, Jr. teaches the use of a valve (56) for controlling the flow of the sample. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include in Klein a valve as taught by

Lepper Jr. that coupled to the processing circuit for the purpose of controlling the sample passing through the particle counter and water sensor.

Regarding claims 44-45, see page 30, lines 11-24 of Klein for the use of water sensor.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Following references relate to an optical system for detecting fluid: Sibley et al (4,649,711), Manz et al (6,746,610).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoa Q. Pham whose telephone number is (571) 272-2426. The examiner can normally be reached on 7:30AM to 6 PM, Monday through Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory J. Toatley, Jr. can be reached on (571) 272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Hoa Q. Pham
Primary Examiner
Art Unit 2877

HP
March 8, 2005